



# This MotoCAP safety rating applies to:

Brand: Spidi

Model: RR Pro Pants Wind Type: Pants - Leather Date purchased: 29 October 2018

Sizes tested: 54
Gender: M
Style: Sports
Test code: P18L03

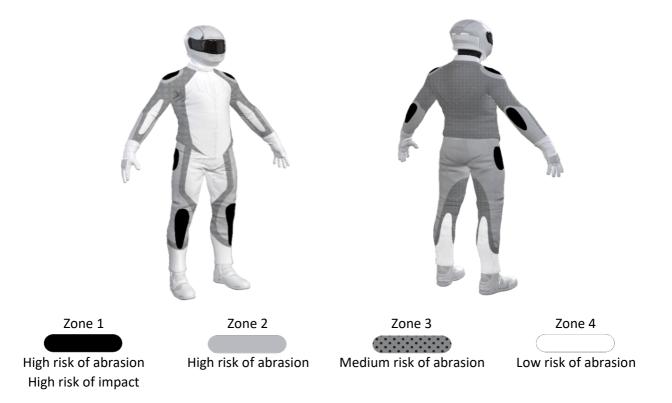
## **Test Results Summary:**

	Rating	Score
MotoCAP Protection Rating	***	45.7
Abrasion	6/10	4.84
Burst	8/10	807
Impact	6/10	44.7
MotoCAP Comfort Rating	**	0.344
Moisture Vapour Resistance		31.4
Thermal Resistance		0.180
Water resistance	1/10	215

This garment is fitted with impact protectors for the knees and hips. This garment has perforated leather panels in the front of the upper part of the leg to aid cooling in hot weather.

# **Jacket and Pants - Crash Impact Risk Zones**

This diagram is a pictorial representation of the crash impact risk Zones.





#### **Abrasion Resistance**

The garment was tested for abrasion resistance in accordance with MotoCAP test protocols. The table below shows the test results for time to abrade through all layers of the materials. Calculated for each sample by Zone, type and area coverage of each material as a proportion of that Zone.

## Details of materials used in garment:

Material A: Velcro fabric outer, foam underlay, single layer of leather and mesh inner liner

Material B: Double layer of leather outer and mesh inner liner Material C: Single layer of leather outer and mesh inner liner

Material D: Stretchy fabric outer and mesh inner liner

Zone	Coverage	Abrasion t	time for each	ch test (sec	onds)			Average
	(%)	1	2	3	4	5	6	(seconds)
Zone 1 and 2	areas (High abra	asion risk)						
Material A	15%	10.00	10.00	10.00	10.00			10.00 <b>G</b>
Material B	85%	10.00	4.40	10.00	5.39	5.62		7.08 <b>G</b>
Zone 3 area (	Medium abrasio	n risk)						
Material C	20%	1.79	1.60	1.80	2.28	3.18	2.68	2.22 A
Material D	80%	0.44	0.59	0.50	0.69	0.49	0.65	0.56 P
Zone 4 area (	Low abrasion ris	sk)						
Material C	10%	1.79	1.60	1.80	2.28	3.18	2.68	2.22 <b>G</b>
Material D	90%	0.44	0.59	0.50	0.69	0.49	0.65	0.56 M

Abrasion times are capped at a maximum of 10.00s.

The diagram below is a visual indication of the likely abrasion performance of the materials in each zone calculated from the data in the table above. The colour coding is based on the worst performing material in each zone.



		Good	Acceptable	Marginal	Poor
<b>Determining Criteria</b>					
High abrasion risk	Zone 1/2:	> 5.6	3.0 - 5.6	1.3 - 2.9	< 1.3
Medium abrasion risk	Zone 3:	> 2.5	1.8 - 2.5	0.8 - 1.7	< 0.8
Low abrasion risk	Zone 4:	>1.5	1.0 - 1.5	0.4 - 0.9	< 0.4



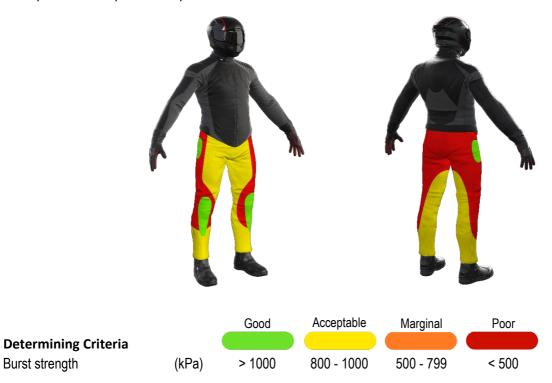
# **Burst Strength**

The garment's burst strength was tested in accordance with MotoCAP test protocols. The table below shows the burst pressure in kilopascals (kPA) for each sample tested by Zone and the average result for each zone.

# Burst pressure (kPA)

Area	1	2	3	4	5	Average
Zones 1 & 2	1327	1333	934	1313	893	1160 G
Zone EZ	523	206	287	684	324	405 P
Zones 3 & 4	1080	839	775	528	1308	906 A

The diagram below illustrates the burst strength results in terms of the likely performance of the garment in an impact and is a pictorial representation of the data from the table above.





## **Impact Protection**

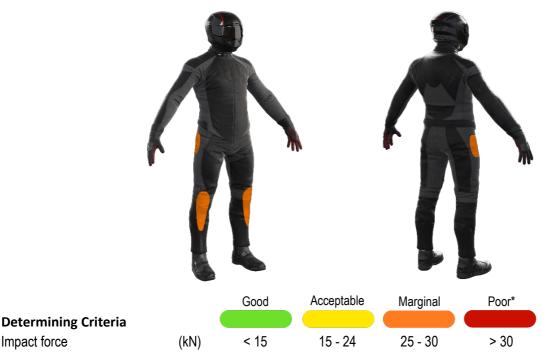
The garment was tested for impact protection and coverage in accordance with MotoCAP test protocols. The table below shows the test results for each strike on each impact protector in kilonewton (kN) and their area of coverage as a proportion (%) of the Zone.

Knee	Hip
23.0 A	27.7 M
29.9 M	29.5 M
150%	150%
100%	100%
	23.0 A 29.9 M 150%

#### Individual test results

Impact force (kN)	Knee			Hip		
Strike location	Α	В	С	Α	В	С
Impact Protector 1	15.7	22.0	29.7	26.5	26.6	27.8
Impact Protector 2	19.7	21.4	27.3	27.3	27.3	29.5
Impact Protector 3	18.5	22.7	29.9	28.3	26.4	29.2

The diagram below is a visual indication of the likely performance of each impact protector calculated from the data in the table above. The colour coding is based on the worst performing score for average or maximium force for each impact zone.



<sup>\*</sup> Poor may also indicate that no impact protector, or impact protector pocket is present in the garment Areas shaded black are not considered in the impact protection ratings.



#### Thermal comfort

The garment was tested for thermal comfort following the MotoCAP test protocols. The table below shows the moisture vapour resistance and the thermal resistance values obtained.

	1	2	Average
Moisture Vapour Resistance - Ret	31.6	31.1	31.4
(kPam²/W)			
	1	2	Average
Thermal Resistance - R <sub>ct</sub>	0.184	0.176	0.180
(Km²/W)			

## Water spray and rain resistance

This garment is advertised as 50% water-resistant, and so has been tested for water spray and rain resistance according to the MotoCAP test protocols. The table below shows the increased weight (ml) and proportion (%) of the garment and undergarments due to water absorption.

	Water absorbe	ed by garment	Water absorbe	ed by underwear
Volume (ml) Percentage (%)		Volume (ml)	Percentage (%)	
Garment 1	1106	71%	604	241%
Garment 2	895	58%	513	188%
Average	1000	65%	558	215%

#### **Location of wetting:**

Visible wetting to the cotton undergarment worn under the motorcycle water resistant pants was present everywhere throughout the pants. The garment was claimed to be 50% waterproof on swing tags however there was no water proof membrance present.